

Name:  
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES  
End Semester Examination, July 2020

Course Code & Name: CSEG2012 – Storage Technology Foundations

Semester: IV

Programme: B.Tech. CSE (IT Infrastructure)

Time: 2 hrs.  
Max. Marks: 120

7/29/2020

Test Canvas: End-Semester Exam (July-2020) – Storage ...



Christalin Nelson 411

My Institution

Courses

Community

Tests, Surveys and Pools Tests Test Canvas : End-Semester Exam (July-2020)

Edit Mode is: ON

This Test has 37 attempts. For information on editing questions, click [More Help](#) below.

### Test Canvas: End-Semester Exam (July-2020)

The Test Canvas lets you add, edit and reorder questions, as well as review a test. [More Help](#)

↑ Question Settings

You can edit, delete or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.

Description The Question Paper has 60 Questions of 2 marks each. Answer ALL the questions.  
**Duration:** 120 min.

Instructions

Total Questions 60

Total Points 120

Number of Attempts 37

Select: All None Select by Type: - Question Type -

Delete and Regrade

Points

Update and Regrade

Hide Question Details

1-12. Random Block

Points per question: 2

Total Points: 24

















Total Questions: 21  
Number of Questions to display: 12  
Source Pool: ESE CO1  
Question Types: All Pool Questions


Preview questions that match selected criteria

Question Display

Question Type	Question Text	Alignment Count
Multiple Answer	Question Text: Examples of business processes or systems that rely on digital information include _____. (Select all answers that apply)	Alignment Count: 0

Details:	Multiple Answer	Question Text: The increasing dependence of businesses on information has amplified the challenges in (Choose all answers that apply)	Alignment Count: 0
Details:	True / False	Question Text: More information is created by individuals than by organizations (including business, governments, non-profits and so on).	Alignment Count: 0
Details:	Multiple Answer	Question Text: The factors that have contributed to the growth of digital data are: (Choose all answers that apply)	Alignment Count: 0

Question Type	Question Text	Alignment Count
Details:  Multiple Choice	Question Text: _____ is a facility that contains information storage and other physical IT resources for computing, networking, and storing information.	Alignment Count: 0
Details:  Multiple Answer	Question Text: Examples of research and business data:	Alignment Count: 0
Details:  Multiple Answer	Question Text: Example(s) of Structured data (Choose all answers that apply).	Alignment Count: 0
Details:  Matching	Question Text: Match the Following:	Alignment Count: 0
Details:  Matching	Question Text: Match the Following:	Alignment Count: 0
Details:  Matching	Question Text: Match an appropriate description to the given core element of a data center.	Alignment Count: 0
Details:  Multiple Choice	Question Text: Continuous process of gathering information on various elements and services running in a data center.	Alignment Count: 0
Details:  Multiple Choice	Question Text: A collection of optical disks and drives.	Alignment Count: 0
Details: Ordering	Question Text: Order the different phases of Information Lifecycle.	Alignment Count: 0
Details:  Matching	Question Text: In a Tiered Storage each tier has different levels of protection, performance, data access frequency, and other considerations. Match the following:	Alignment Count: 0
Details:  Hot Spot	Question Text: The picture shows the different ILM Implementations. Spot the Enterprise-wide ILM Implementation.	Alignment Count: 0
Details:  Multiple Answer	Question Text: The subsystems managed inside a Datacenter include _____.	Alignment Count: 0
Details:  Multiple Choice	Question Text: _____ is sequential access storage device.	Alignment Count: 0
Details:  Multiple Choice	Question Text: Identify the wrong statement about JBOD.	Alignment Count: 0
Details:  Multiple Choice	Question Text: _____ is used for long term storage (archival) of data.	Alignment Count: 0
Details:  Multiple Choice	Question Text: _____ is not a risk for a Data Center.	Alignment Count: 0
Details:  Multiple Answer	Question Text: Identify the Information Management Tool. (Select all that can apply)	Alignment Count: 0

 Question Display 

Displaying 1 to 21 of 21 items

















Show All

Edit Paging...

Total Questions:	23	Total Points:	24
Number of Questions to display:	<input type="text" value="12"/>		
Source Pool:	ESE CO2		
Question Types:	All Pool Questions		

▼ Preview questions that match selected criteria

Question Display ▾

	Question Type	Question Text	Alignment Count
Details: 	Multiple Answer	Question Text: Identify the statements true about Virtualized Data Center (Choose all that can apply)	Alignment Count: 0
Details: 	Multiple Answer	Question Text: _____ can be considered as a Host on which the applications for I/O reside. (Choose all that can apply)	Alignment Count: 0
Details: 	Matching	Question Text: Match the following:	Alignment Count: 0
Details: 	Multiple Choice	Question Text: _____ is non-volatile and holds data for execution of internal routines, such as system startup.	Alignment Count: 0
Details: 	Multiple Answer	Question Text: Identify the Storage Devices. (Choose all that can apply)	Alignment Count: 0
Details: 	Multiple Choice	Question Text: Used for Host to Storage Device Communication.	Alignment Count: 0
Details: 	Multiple Answer	Question Text: Physical components of connectivity between the host and storage (Choose all that can apply)	Alignment Count: 0
Details: 	Multiple Answer	Question Text: Logical Components of Connectivity that connect to disk systems	Alignment Count: 0
Details: 	Multiple Answer	Question Text: Tape has the following limitations (Choose all that can apply)	Alignment Count: 0
Details: 	Multiple Choice	Question Text: Example of a WORM device	Alignment Count: 0
Details: 	Multiple Choice	Question Text: _____ is the most popular storage medium used in modern computers for storing and accessing data for performance-intensive, online applications.	Alignment Count: 0
Details: 	Multiple Choice	Question Text: HDA _____.	Alignment Count: 0
Details: 	True / False	Question Text: A platter is a rigid, round disk coated with magnetic material on its surface for the data to be written to or read from both top and bottom surfaces.	Alignment Count: 0
Details: 	Matching	Question Text: Match the following:	Alignment Count: 0
Details: 	True / False	Question Text: The data transfer rate increases while accessing data from zones closer to the center of the platter. Applications that demand high performance should have their data on the inner zones of the platter.	Alignment Count: 0
Details: 	Multiple Answer	Question Text: Components that contribute to disk service time on a disk drive are (choose all that can apply)	Alignment Count: 0

Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Multiple Choice	Question Text:  _____ improves the flexibility and utilization of HDDs.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Identify the statements that are true about a Journaling File System.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Limitations of Software RAID (choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: _____ techniques determine the data availability and performance characteristics of RAID arrays. (Choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the RAID Levels with its appropriate description.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the following:	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the categories of Intelligent Storage Arrays:	Alignment Count: 0

Question Display

Displaying 1 to 23 of 23 items | Show All Edit Paging...

25 - 36 Random Block

Points per question: 2

















Total Points: 24

Total Questions:	22
Number of Questions to display:	12
Source Pool:	ESE CO3
Question Types:	All Pool Questions

Preview questions that match selected criteria

Question Display

Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Multiple Answer	Question Text: Identify the statements which are correct for a DAS. (Choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: _____overcomes the distance and device count limitations and provides centralized management of storage device.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: The host and the storage device in DAS communicate with each other by using predefined protocols such as (Choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: SATA devices are _____, which means that they can be connected or removed while the host is up and running.	Alignment Count: 0

Question Type	Question Text	Alignment Count
Details:  Multiple Choice	Question Text: SAS300 supports dual porting, full-duplex, device addressing, and uses a simplified protocol to minimize interoperability issues between controllers and drives. _____ type of memory is dual-ported and can be read from and written to at the same time?	Alignment Count: 0
Details:  Multiple Choice	Question Text: _____ is an IP-based file-sharing device attached to a LAN.	Alignment Count: 0
Details:  Multiple Choice	Question Text: Examples of implementations of file-sharing environments (a) File Transfer Protocol (FTP) (b) Distributed file systems (c) Client/Server model that uses a file-sharing protocol	Alignment Count: 0
Details:  Multiple Choice	Question Text: A _____ creates a namespace, which holds the unique name of every network resource and helps recognize resources on the network.	Alignment Count: 0
Details:  Multiple Answer	Question Text: Components of NAS (choose all that can apply)	Alignment Count: 0
Details:  Matching	Question Text: NAS Implementations. Match the following:	Alignment Count: 0
Details:  Multiple Answer	Question Text: Identify the statements which are correct for a low-end appliance-type Integrated NAS solution.	Alignment Count: 0
Details:  True / False	Question Text: A Gateway NAS implementation can utilize the FC infrastructure, such as switches, directors, or direct-attached storage arrays.	Alignment Count: 0
Details:  Multiple Choice	Question Text: Factors that must be considered to deploy a stable NAS solution (a) multiple paths for data (b) redundant fabrics (c) load distribution	Alignment Count: 0
Details:  Ordering	Question Text: Steps required to host files and permit users to access the hosted files on a NAS device	Alignment Count: 0
Details:  Multiple Choice	Question Text: _____ uses Remote Procedure Call (RPC) as a method of interprocess communication between two computers.	Alignment Count: 0
Details:  Multiple Choice	Question Text: CIFS runs over _____ protocol.	Alignment Count: 0
Details:  Multiple Choice	Question Text: NFSv2 and NFSv3 are _____ protocols. NFSv4 and CIFS are _____ protocol.	Alignment Count: 0
Details:  Ordering	Question Text: Order the steps involved in the process of data retrieval from CAS:	Alignment Count: 0
Details:  Matching	Question Text: Match the following CAS terminologies:	Alignment Count: 0
Details:  Multiple Answer	Question Text: When the cluster is installed, the nodes are configured with a "role" defining the functionality they provide to the cluster. Identify the roles a node can be configured with (choose all that can apply)	Alignment Count: 0

Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Multiple Choice	Question Text: _____ partitions data among a set of hard drives in a single system, whereas _____ partitions storage space across multiple nodes in a network. CAS is a _____.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: The following properties apply to _____. a) Storage device is connected to the host and information is local b) Device must be mounted or loaded to access the information	Alignment Count: 0

Question Display

Displaying 1 to 22 of 22 items | Show All Edit Paging...

37 - 48. **Random Block** Points per question: **2**

Total Questions:	29	Total Points: 24
Number of Questions to display:	<input type="text" value="12"/>	
Source Pool:	ESE CO4	
Question Types:	All Pool Questions	

Preview questions that match selected criteria

Question Display

Page 1 of 2 > >

Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Multiple Choice	Question Text: Fibre Channel is a high-speed network technology that runs on _____ cables (preferred for front-end SAN connectivity) and _____ cables (preferred for back-end disk connectivity).	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Identify the features of FC-AL configuration. (Choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: Among all types of fiber cables, _____ provides minimum signal attenuation over maximum distance.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the Following:	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the interconnect Devices used in SAN with the correct statement.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the different types of SAN Connectivity with its appropriate description.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the Fiber Channel Ports to its appropriate definition.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: Access control in SAN/FC switches is enforced by _____.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the Following:	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: _____ is the implementation of SCSI-3 over Fibre Channel networks. A new SCSI design, _____, implements the SCSI-3 standard over Internet Protocol (IP) and uses TCP as a transport mechanism.	Alignment Count: 0

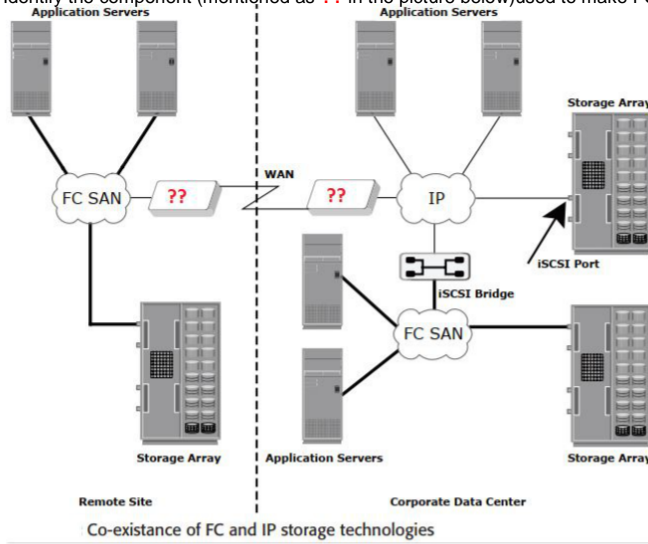
Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Multiple Answer	Question Text: FC standard enables mapping several existing Upper Layer Protocols (ULPs) to FC frames for transmission (choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the functionality of the given Layer of FCP protocol stack.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: FC Address format varies with type of node port in fabric. Match them: (Figure-A) <div style="text-align: center;"> </div> (Figure-B) <div style="text-align: center;"> </div> (Figure-C) <div style="text-align: center;"> </div>	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: WWN structure for an array includes (choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Which of the following belongs to a FC Frame (choose all that can apply)?	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Data transport in FC network is analogous to conversation between 2 people.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Identify the common feature(s) among the FC Class-2 and Class-3 services. (Choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the Following:	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the following Fabric Login Types:	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: ____ enables multiple server ports to communicate to a single storage port.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: Enterprise SANs are mostly of _____ topology.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: Identify the invalid iSCSI name.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: iSCSI targets can be discovered by	Alignment Count: 0



Question Type	Question Text	Alignment Count
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Details:  Multiple Choice Question Text: In a \_\_\_\_\_ topology, a maximum of one ISL or hop is required for host-to-storage traffic. Alignment Count: 0

Details:  Multiple Choice Question Text: Identify the component (mentioned as ?? in the picture below) used to make FC and IP storage technologies coexist. Alignment Count: 0



Question Display

Page 1 of 2

Displaying 1 to 25 of 29 items | Show All Edit Paging...

49 - 60 Random Block

Points per question: 2

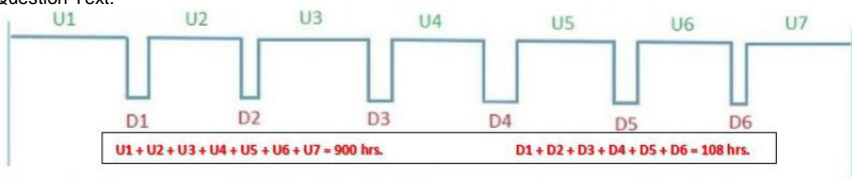
Total Points: 24

Total Questions:	20
Number of Questions to display:	12
Source Pool:	ESE CO5
Question Types:	All Pool Questions

Preview questions that match selected criteria

Question Display

Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Matching	Question Text: Evaluate the following:	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Pick-up the matching Recovery/Restore strategy.	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the descriptions with the appropriate BC terminology.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Identify the potential single point(s) of failure available in the figure below (choose all that can apply).	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: _____ is used in implementations where the production volume resources cannot be exclusively reserved for a backup process for extended periods to perform a full backup.	Alignment Count: 0

Question Type	Question Text	Alignment Count
Details: <input type="checkbox"/> Multiple Choice	Question Text: _____ deployed in environments where the impact of downtime from a cold backup or the performance resulting from a hot backup is unacceptable.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: _____ is an industry-standard TCP/IP-based protocol for moving data across the network for backup and recovery.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: One or more local replicas of the source data can be created for various purposes, including the following:	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Compare the Storage Array based Local Replication Technologies based on the factor "Accessibility to Target".	Alignment Count: 0
Details: <input type="checkbox"/> True / False	Question Text: Backup Copy is immediately accessible by applications and Replica must be restored to make it accessible to applications.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Identify the different approaches of Host-based Remote Replication (choose all that can apply).	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: The basic storage security framework is built around the some primary services of security. Identify them (choose all that can apply).	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Classify the following into Active or Passive Attack.	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: For a Denial of Service attack what are the Security Services required?(choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: For a Modification attack what are the Security Services required?(choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Matching	Question Text: Match the Following:	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: In order to identify the threats that apply to a storage network, access paths to data storage can be categorized into security domains. Identify them. (choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Answer	Question Text: Storage infrastructure components should be monitored for (choose all that can apply)	Alignment Count: 0
Details: <input type="checkbox"/> Fill in Multiple Blanks	<p>Question Text:</p>  <p>A particular service is delivered to its users in the above pattern where U is the Uptime and D is the Downtime.  MTTR = [a]  MTBF = [b]  % Availability = [c]  <b>NOTE:</b> Availability(c) should be rounded to one decimal (Example: 32.5)</p>	Alignment Count: 0
Details: <input type="checkbox"/> Multiple Choice	Question Text: When is Log Switching performed in host-based log shipping method of Remote Replication?	Alignment Count: 0

Select: [All](#) [None](#) Select by Type:

Delete and Regrade

Points

Update and Regrade

Hide Question Details

← OK